

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA-7 Operational Sys Dev

PROGRAM ELEMENT (PE) NAME AND NO.
0206624M Marine Corps Combat Services Support

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	15.908	16.318	17.524	13.106	4.003	2.661	2.730
C0076 Medium Tactical Vehicle Replacement (MTVR)	2.264	0.782	0.0	0.0	0.0	0.0	0.0
*C0201 Logistical Vehicle System Replacement (LVSR)	8.324	1.446	7.652	1.115	0.920	0.0	0.0
C2316 Combat Service Support Engineering Equipment	2.649	3.376	2.028	0.532	0.539	0.551	0.562
C2509 Motor Transport Modernization	0.433	0.447	0.560	0.581	0.594	0.602	0.619
C2929 Testing Measuring Diagnostic Equip (TMDE) & SE	1.274	4.267	7.284	10.878	1.950	1.508	1.549
C9645 Battlefield Management System	0.964	0.0	0.0	0.0	0.0	0.0	0.0
C9999 FY06 Congressional Adds	0.0	6.000	0.0	0.0	0.0	0.0	0.0
Quantity of RDT&E Articles							

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program element (PE) provides funding for Marine Air-Ground Task Force requirements for Combat Service Support equipment improvement. It will enhance combat breaching capabilities of the ground combat elements, logistics, maintenance and transportation requirements. It will also determine the reconfiguration of the current Twin Agent Unit firefighting apparatus and provide a portable, highly mobile general-purpose automatic tester designed for use by technicians in the garrison and at the forward edge of the battlefield.

The PE also provides improvements in all areas of Combat Service Support Equipment Vehicles by determining the replacement for the heavy, medium and light fleet vehicles. Alternative Power Sources for Communications Equipment (APSCE) is a suite of devices that provides the commander with the capability to use existing power to operate his communication equipment, computers and peripheral equipment instead of using batteries or fossil fuel generators. The Marine Corps Family of Automatic Test Systems (ATS), formerly TETS, provides automatic testing capability for use by technicians both in garrison and forward edge of Battlefield.

*C0201 \$4.488M of FY05 funds will forward finance FY06.

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PROGRAM ELEMENT (PE) NAME AND NO.

0206624M Marine Corps Combat Services Support

B. PROGRAM CHANGE SUMMARY**(U) FY 2006 President's Budget:**

FY2005

FY2006

FY2007

16.109

10.476

13.440

(U) Adjustments from the President's Budget:

(U) Congressional/OSD Program Reductions

(U) Congressional Rescissions

(U) Congressional Increases

6.000

(U) POM 06 Core Adjustment

(U) Reprogrammings

0.063

4.000

(U) SBIR/STTR Transfer

-0.257

(U) Minor Affordability Adjustment

-0.007

-0.158

0.084

(U) FY 2007 President's Budget:

15.908

16.318

17.524

CHANGE SUMMARY EXPLANATION:

(U) Funding: See Above.

(U) Schedule: Not Applicable.

(U) Technical: Not Applicable.

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EXHIBIT R-2a, RDT&E Project Justification

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February 2006

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206624M Marine Corps Combat Services Support	C0201 Logistical Vehicle System Replacement (LVSR)					
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	8.324	1.446	7.652	1.115	0.920	0.000	0.000
RDT&E Articles Qty	1	1	1				

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Logistical Vehicle System Replacement (LVSR) program will replace the current Logistical Vehicle System (LVS) fleet. This vehicle will increase mobility, maintainability, and reliability for the heavy fleet, while increasing off-road payload. Three LVSR variants will replace the current five LVS variants. The cargo variant will be fielded prior to the LVSR 5th Wheel and Wrecker variants which will be options on the LVSR cargo variant production contract. The Flatrack Refueling Capability (FRC) program will replace the M970 Semi-Trailer refueling in both the Force Service Support Group (FSSG) and the Marine Air Wings (MAWs) for ground refueling missions.

***\$4.488M of FY05 funds will forward finance FY06.**

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.769	0.046	2.169
RDT&E Articles Qty			
LVSR: Developmental Test and Evaluation.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.065	0.000	0.590
RDT&E Articles Qty			
LVSR: Program Management and Support / Contract Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	4.490	0.000	3.500
RDT&E Articles Qty	1		1
LVSR: Procure Prototypes. (FY06 RDT&E Articles Qty's are 5th Wheel and Wrecker Variants)			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.000	0.000	0.000
RDT&E Articles Qty			
LVSR: Engineering Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.022	0.436
RDT&E Articles Qty			

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APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

PROJECT NUMBER AND NAME

RDT&E, N /BA-7 Operational Sys Dev

0206624M Marine Corps Combat Services Support

C0201 Logistical Vehicle System Replacement (LVSR)

FRC: Provide Program Management and support.

COST (\$ in Millions)

FY 2005

FY 2006

FY 2007

Accomplishment/Effort Subtotal Cost

0.000

1.378

0.718

RDT&E Articles Qty

1

FRC: Prototype Development.

COST (\$ in Millions)

FY 2005

FY 2006

FY 2007

Accomplishment/Effort Subtotal Cost

0.000

0.000

0.239

RDT&E Articles Qty

FRC: Developmental Test and Evaluation

(U) Total \$

8.324

1.446

7.652

(U) Project Change Summary

FY2005

FY2006

FY2007

(U) FY2006 President's Budget:

9.210

1.468

5.115

(U) Adjustments from the President's Budget:

(U) Congressional/OSD Program Reductions

(U) Congressional Rescissions

(U) Congressional Increases

(U) Reprogrammings

-0.763

2.500

(U) SBIR/STTR Transfer

-0.121

(U) Minor Affordability Adjustment

-0.002

-0.022

0.037

(U) FY2007 President's Budget:

8.324

1.446

7.652

CHANGE SUMMARY EXPLANATION:

(U) Funding: See above.

(U) Schedule: Not Applicable.

(U) Technical: Not Applicable.

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APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

PROJECT NUMBER AND NAME

RDT&E, N /BA-7 Operational Sys Dev

0206624M Marine Corps Combat Services Support

C0201 Logistical Vehicle System Replacement (LVSR)

(U) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY2008	FY2009	FY2010	FY2011	To Compl	Total Cost
(U) PMC Line (BLI# 509300) FlatRack	0.000	0.000	7.151	16.740	37.480	0.000	0.000	0.000	61.371
(U) PMC Line (BLI# 509300) LVSR	0.000	26.860	61.546	96.008	211.318	179.071	161.127	Cont	Cont

(U) Related RDT&E:

- (U) PE 0206623M Marine Corps Ground Combat Supporting Arms Systems
- (U) PE 0603640M Marine Corps Advanced Technology Demonstration
- (U) PE 0604804A Logistics and Engineering Equip/Engr Development
- (U) PE 0206313M Marine Corps Communications

(U) D. ACQUISITION STRATEGY: The Logistics Vehicle System Replacement (LVSR) program will consist of two separate phases. During the first phase, the System Development and Demonstration (SD&D) phase up to two contracts will be awarded to procure prototypes for developmental testing. The winner of the SD&D phase will be awarded a production contract to produce Low Rate Initial Production (LRIP) vehicles for operational testing. The other two LVSR variants, the 5th Wheel and Wrecker variants will be designed, built and tested under the LVSR cargo production contract.

(U) D. ACQUISITION STRATEGY: The Flatrack Refueling Capability (FRC) program will consist of two separate phases. During the first phase, the System Development and Demonstration (SD&D) phase one contract will be awarded to procure prototypes for developmental testing. The winner of the SD&D phase will be awarded a production contract to produce LRIP vehicles for operational testing.

(U) E. MAJOR PERFORMERS:

Mar '04	American Truck Corp	3 Vehicle Prototypes
Mar '04	Oshkosh Truck Corp	3 Vehicle Prototypes

Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N /BA 7 Operational Sys Dev			0206624M Marine Corps Combat Services Spt				C0201 Logistical Vehicle System Replacement (LVSr)					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
FRC Prototypes	RCP	Oshkosh, Oshkosh, WI				1.378	05/06			0.000	1.378	
FRC Prototypes	MIPR	TACOM						0.718	02/07	0.000	0.718	
LVSr Variant Prototypes	RCP	MCSC Quantico, VA		4.490	02/05			3.500	02/07	0.000	7.990	
Subtotal Product Dev			0.000	4.490		1.378		4.218		0.000	10.086	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
FRC Developmental T&E	TBD	FRC DT						0.239	12/06	0.000	0.239	
LVSr DT Variant	TBD	TBD						2.167	12/06	0.000	2.167	
Subtotal Support			0.000	0.000		0.000		2.406		0.000	2.406	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
LVSr Operational T&E	MIPR	Aberdeen Test Center	0.000	2.727	03/05					0.000	2.727	
Corrosion Test	WR	NSWC Philadelphia	0.000	0.052	05/05					0.000	0.052	
Subtotal T&E			0.000	2.779		0.000		0.000		0.000	2.779	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
LVSr Contractor Suppt	RCP	Sverdrup, Dumfries, VA.	3.579	0.500	10/04			0.500	12/06	Cont	Cont	
LVSr Prgrm Mgmnt Spt	WR	MCSC Quantico, VA	0.130	0.555	10/04	0.046	10/05	0.090	12/06	Cont	Cont	
FRC Prgrm Mgmnt Spt	MIPR	TACOM, Warren, MI	0.000			0.022	10/05	0.438	12/06	Cont	Cont	
Subtotal Management			3.709	1.055		0.068		1.028		Cont	Cont	
Remarks:												
Total Cost			3.709	8.324		1.446		7.652		Cont	Cont	

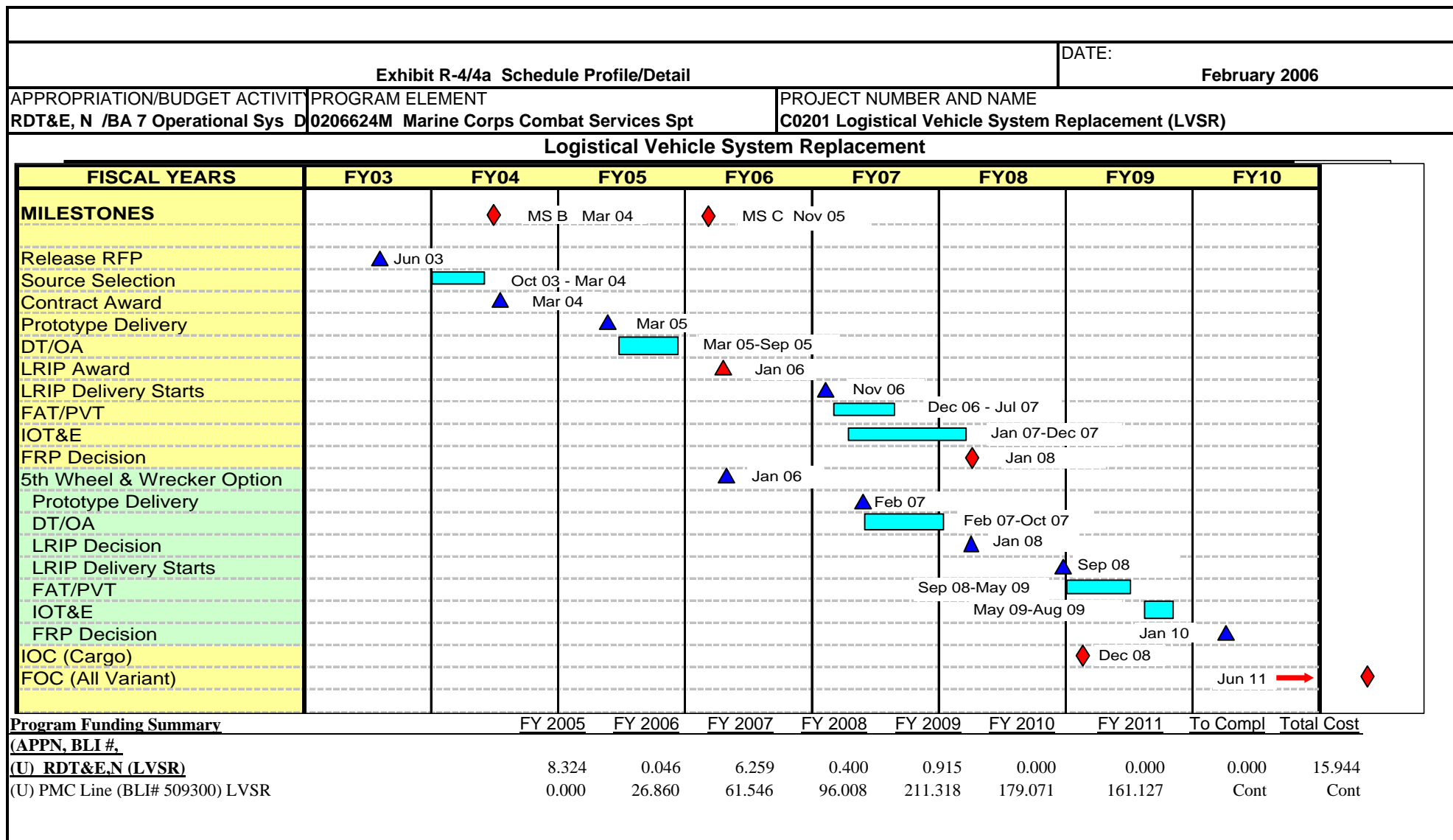


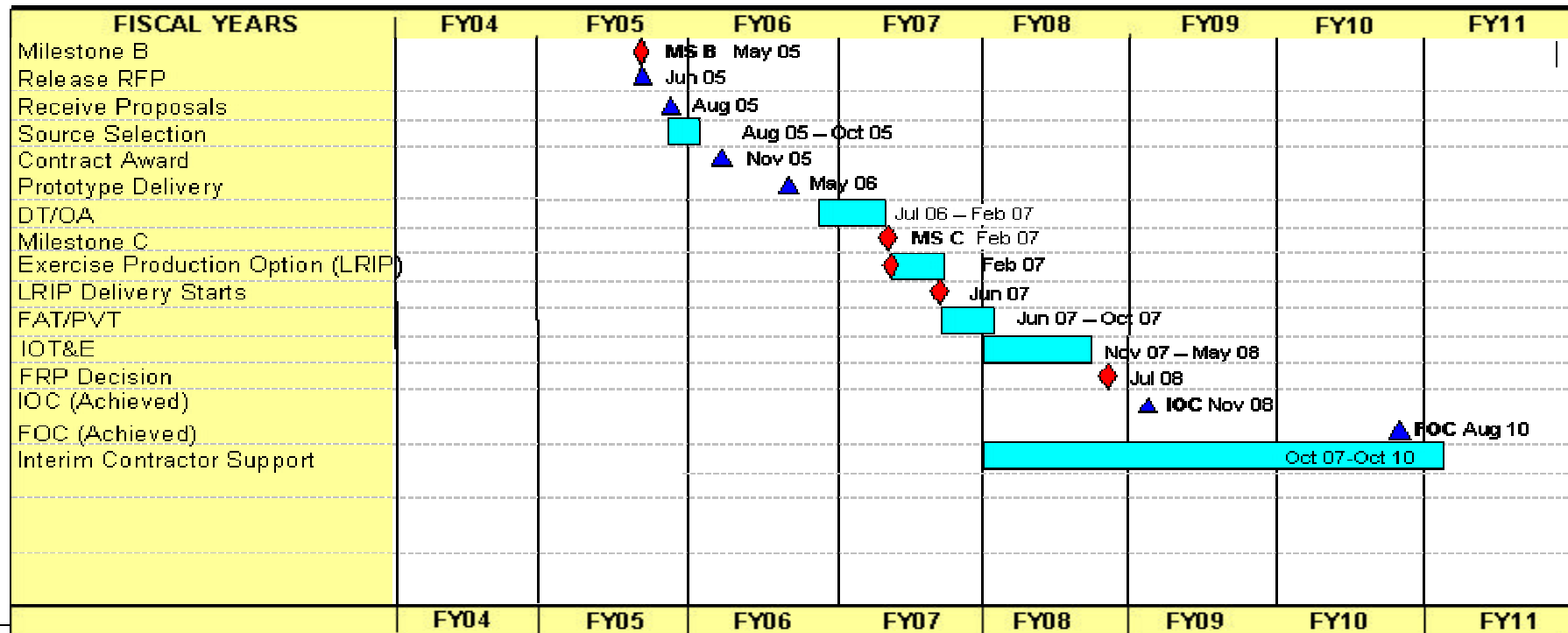
Exhibit R-4/4a Schedule Profile/Detail							DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME							
RDTE, N /BA 7 Operational Sys D	0206624M Marine Corps Combat Services Spt	C0201 Logistical Vehicle System Replacement (LVSr)							

LVSr SCHEDULE DETAIL	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Release RFP	3Q								
Source Selection		1-2Q							
Contract Award		2Q							
Prototype Delivery			2Q						
DT/OA			2-4Q						
LRIP Delivery					1Q				
FAT					1-4Q				
IOT&E					2Q	1Q			
FRP Decision						2Q			
5th Wheel/Wrecker Option				2Q					
Prototype Delivery					2Q				
DT/OA					2Q	1Q			
LRIP Delivery						4Q			
FAT						4Q	3Q		
FRP Decision								2Q	
IOC							1Q		
FOC									3Q

APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT
 RDT&E, N /BA 7 Operational Sys D0206624M Marine Corps Combat Services Spt

PROJECT NUMBER AND NAME
 C0201 Logistical Vehicle System Replacement (LVSr)

Flatrack Refueling Capability FRC



Program Funding Summary

(APPN, BLI #,
 NOMEN)

(U) RDT&E,N (Flatrack)

(U) PMC Line (BLI# 509300) FlatRack

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N (Flatrack)	0.000	1.400	1.393	0.709	0.000	0.000	0.000	0.000	3.502
(U) PMC Line (BLI# 509300) FlatRack	0.000	0.000	7.151	16.740	37.480	0.000	0.000	0.000	61.371

Exhibit R-4/4a Schedule Profile/Detail

DATE:

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APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

PROJECT NUMBER AND NAME

RDTE, N /BA 7 Operational Sys D

0206624M Marine Corps Combat Services Spt

C0201 Logistical Vehicle System Replacement (LVSR)

FLATRACK SCHEDULE DETAIL	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone B	3Q						
Release RFP	3Q						
Source Selection	4Q	1Q					
Contract Award		1Q					
Prototype Delivery		3Q					
DT/FUE		4Q	2Q				
Milestone C			2Q				
LRIP Delivery			3Q				
FAT			3Q	1Q			
FUE				2Q			
FRP Decision				4Q			
IOC Achieved					1Q		
FOC Achieved						4Q	
Interim contractor Support				1-4Q	1-4Q	1-4Q	1Q

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APPROPRIATION/BUDGET ACTIVITY

RDT&E, N /BA-7 Operational Sys Dev

0206624M Marine Corps Combat Services Spt

PROJECT NUMBER AND NAME

C2316 Combat Services Support Engineering Equipment

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	2.649	3.376	2.028	0.532	0.539	0.551	0.562
RDT&E Articles Qty							

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

A. This project includes improvements in all areas of Combat Service Support Engineering Equipment. The Assault Breacher Vehicle (ABV) will be a fully tracked, armored combat engineer vehicle capable of keeping pace with the maneuver force. It will breach minefields with Marine Corps integrated items to include a full width mine plow, two line charges, remote control kit, weapons station and lane marking system. The ABV is a survivable combat system which will enhance the combat breaching capabilities of the ground combat elements. The overall system is integrated on the ABRAMS tank chassis to provide commonality with the tank fleet while providing the latest technology in armor protection. It will provide capabilities to breach minefields and complex obstacles.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.170	0.000	0.000
RDT&E Articles Qty			

ABV: Conduct a limited user test and Operational Test & Evaluation.

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.479	0.376	0.528
RDT&E Articles Qty			

M1A1 Armor Mods: Continue joint participation and evaluation of prospective modifications including component enhancements, advanced fire control systems, survivability systems, Combat Identification, mobility and others.

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.100	0.750
RDT&E Articles Qty			

Expeditionary Assault Bridge (EAB): Begin system integration with M1A1 tank chassis, BR90 bridge launcher, and MLC70 assault bridge to build first article EAB demonstrator. EAB is an armored vehicle used for rapidly employing, short-gap, assault crossing system, capable of spanning natural and manmade obstacles up to 60 feet (18.29) while under fire for up to Military Load Class (MLC) 70-ton vehicles. The EAB consists of a rebuilt and upgraded M1A1 Tank chassis with existing MLC70 scissors bridge and a modified BR90 launcher. The EAB will provide the MAGTF with the capability to conduct assault and tactical wet and dry gap crossings in all types of climate and terrain, including slopes, trenches and vertical steps. The M1A1 based vehicle will provide the survivability, maintainability, and maneuverability required to keep pace with the maneuver force.

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.500	0.500
RDT&E Articles Qty			

EAB: Program management and engineering support.

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.400	0.250
RDT&E Articles Qty			

EAB: Conduct developmental testing and evaluation.

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RDTE, N /BA-7 Operational Sys Dev

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PROJECT NUMBER AND NAME

C2316 Combat Services Support Engineering Equipment

(U) Total \$

2.649

3.376

2.028

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APPROPRIATION/BUDGET ACTIVITY

RDT&E, N /BA-7 Operational Sys Dev

0206624M Marine Corps Combat Services Spt

PROJECT NUMBER AND NAME

C2316 Combat Services Support Engineering Equipment

(U) PROJECT CHANGE SUMMARY:

	FY2005	FY2006	FY2007
(U) FY 2006 President's Budget:	1.964	3.428	0.518
(U) Adjustments from the President's Budget:			
(U) Congressional/OSD Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases			
(U) Reprogrammings	0.704		1.500
(U) SBIR/STTR Transfer	-0.017		
(U) Minor Affordability Adjustments	-0.002	-0.052	0.010
(U) FY 2007 President's Budget:	2.649	3.376	2.028

CHANGE SUMMARY EXPLANATION:

- (U) Funding: See above.
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC Line (BLI# 613300)- ABV	8.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.845
(U) PMC Line (BLI# 652000)EOD Sys- ABV	0.000	59.422	6.888	0.000	0.000	0.000	0.000	0.000	66.310
(U) PMC Line (BLI# 651800) Amphib SE- EAB	0.000	0.000	2.012	4.051	11.996	2.596	2.659	Cont	Cont
(U) PMC (BLI#206300) Mod Kits (M1A1 Mod Kits)	3.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.682
(U) PMC (BLI#206300) Mod Kits M1A1 Tank Blades (OIF)	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.500
(U) PMC (BLI#206300) Mod Kits Armored Veh Mod Kits	2.847	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.847
(U) PMC (BLI#206300) Mod Kits (M1A1 Tank Mods)	7.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.600
(U) PMC (BLI#206300) Mod Kits (M1A1 Safety Mods)	3.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.003
(U) PMC (BLI#206100) Mod Kits (M1A1 Mod Kits)	0.000	3.711	2.734	2.829	4.247	4.347	4.461	Cont	Cont
(U) PMC (BLI#206100) Recovery Veh, Ft, Heavy	0.000	5.565	0.000	0.000	0.000	0.000	0.000	0.000	5.565
(U) PMC (BLI#206100) Safety Mods (M1A1)	0.000	3.098	3.271	3.172	1.646	1.717	1.750	Cont	Cont
(U) PMC (BLI#209500) M1A1 FEP (M1A1)	35.957	31.678	19.085	25.966	0.000	0.000	0.000	0.000	112.686

(U) Related RDT&E:

- (U) PE 0206623M Marine Corps Ground Combat Supporting Arms Systems
- (U) PE 0603640M Marine Corps Advanced Technology Demonstration
- (U) PE 0604804A Logistics and Engineering Equip/Engr Development
- (U) PE 0206313M Marine Corps Communications

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RDT&E, N /BA-7 Operational Sys Dev

0206624M Marine Corps Combat Services Spt

PROJECT NUMBER AND NAME

C2316 Combat Services Support Engineering Equipment

(U) D. ACQUISITION STRATEGY:

(U) The **M1A1 Tank MOD** and **Safety Mods** programs leverages Army developmental programs to create a system that more readily meets Marine Corps requirements. Modification includes safety, reliability, and technology up-upgrades to meet Marine Corps requirement. M1A1 Tank MOD will exercise options on existing contracts of varying types to conduct research and analysis associated with the development of modifications to the M1A1 Tank and supporting platforms. M1A1 Tank Firepower Enhancement - competitively awarded two Cost Plus Firm Fixed contracts to conduct parallel design, integration and demonstration of Non-Developmental Item (NDI) technology for the M1A1 Tank Firepower Enhancement. Down select to a single contractor with the most promising concept, continuing with design development until production ready. Finally, transition to production with the winning design by exercising a Firm Fixed Price contract option.

(U) **ABV: SYSTEM DEVELOPMENT & DEMONSTRATION PHASE:** Conduct modeling to support vehicle platform selection and trade studies for line charge integration. Modeling applications to support Analysis of Alternatives/Testing & Evaluation Alternatives (AOA/TEA). Establish Statement of Work (SOW) with Anniston Army Depot to build demonstrator vehicle and integrate full width mine plow, lane marking system, line charges, weapons systems & remote control system to the M1 Tank Chassis. Conduct plow tests with the demonstrator vehicle. Conduct developmental testing to include live mine testing and survivability/vulnerability analysis. Conduct trade study (examining capabilities and cost to down select). Select a systems integrator for the production of the LRIP and production vehicles.

(U) **Expeditionary Assault Bridge (EAB):** Begin system integration with M1A1 tank chassis, BR90 bridge launcher, and MLC70 assault bridge to build first article EAB demonstrator. EAB is an armored vehicle used for rapidly employing, short-gap, assault crossing system, capable of spanning natural and manmade obstacles up to 60 feet (18.29) while under fire for up to Military Load Class (MLC) 70-ton vehicles. The EAB consists of a rebuilt and upgraded M1A1 Tank chassis with existing MLC70 scissors bridge and a modified BR90 launcher. The EAB will provide the MAGTF with the capability to conduct assault and tactical wet and dry gap crossings in all types of climate and terrain, including slopes, trenches and vertical steps. The M1A1 based launcher will provide the survivability, maintainability, and maneuverability required to keep pace with the maneuver force.

(U) E. MAJOR PERFORMERS:

FY04 - 02/03 ATC, Aberdeen, MD-Test activity for the ABV during Development Testing (DT)

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Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206624M Marine Corps Combat Services Spt			C2316 Combat Services Support Engineering Equip						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering -ABV	Various	Various	7.777	0.000						0.000	7.777	8.501
Systems Engineering -ABV	Various	Various	3.825	0.685	1Q/05					0.000	4.510	3.418
Systems Engineering -ABV	WR	NSWC, Crane, IN	0.550	0.000						0.000	0.550	0.550
Engineering/Design-ABV	MIPR	PM Unmanned Grd Vehicles	1.899	0.000						0.000	1.899	1.800
Systems Engineering -EAB	WR	Various	0.000	0.000		2.100	1Q/06	0.750	1Q/07	0.000	2.850	2.100
Prod Dev - M1A1 Firepower	RCP	Raytheon, McKinney, TX	3.670	0.000						0.000	3.670	3.670
PROD DEV - M1A1 Mods	RCP	United Defense, Albany Ga	0.250	0.177	1Q/05					Cont	Cont	
PROD DEV - M1A1 Mods	RCP	Various	0.477	0.132	1Q/05	0.201	1Q/06	0.353	1Q/06		1.163	
Subtotal Product Dev			18.448	0.994		2.301		1.103		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Program Support - ABV	RCP	BAE, Stafford, VA	1.979	0.000						0.000	1.979	2.280
Program Support - ABV	RCP	MCSC, Quantico, VA	1.618	0.000						0.000	1.618	1.731
Program Support - ABV	RCP	SVERDRUP, Stafford, VA	0.200	0.000						0.000	0.200	0.200
Program Support - ABV	WR	NAVFAC	0.980	0.000						0.000	0.980	0.940
Program Support - EAB	RCP	BAE, Stafford, VA	0.000	0.000		0.500	1Q/06	0.500	1Q/07	0.000	1.000	0.500
Program Supp-M1A1 Mods	WR	MCSC, Quantico, VA	0.180	0.170	1Q/05	0.175	1Q/06	0.175	1Q/06	Cont	Cont	
Program Supp-M1A1 FEP	MIPR	NWSC, Dahlgren, VA	0.013	0.000						0.000	0.013	0.013
Program Supp-M1A1 FEP	MIPR	PEO STRICOM, Orlando, FL	0.076	0.000						0.000	0.076	0.076
Program Supp-M1A1 FEP	MIPR	NVL, Belvoir, VA	0.228	0.000						0.000	0.228	0.228
Program Supp-M1A1 FEP	MIPR	Tacom, ARDEC Warren, MI	0.085	0.000						0.000	0.085	0.085
Subtotal Support			5.359	0.170		0.675		0.675		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
DT&E - ABV	MIPR	WES, Vicksburg, MS	1.644	0.000						0.000	1.644	1.644
DT&E - ABV	MIPR	APG,MD	1.901	0.000						Cont	Cont	
DT&E - ABV	WR	NSWC, Crane, IN	1.160	0.000						0.000	1.160	1.160
DT&E - ABV	MIPR	APG, MD	1.252	0.589	1Q/05					Cont	Cont	
IOT&E - ABV	WR	MCOTEA	0.900	0.896	1Q/05					0.000	1.796	1.800
Engineering/Design-ABV	MIPR	PM Unmanned Grd Vehicles	0.300	0.000						0.000	0.300	0.300
EAB	RCP	Aberdeen Prvg Grnd, MD	0.000	0.000		0.400	1Q/06	0.250	1Q/07	0.000	0.650	0.400
M1A1 Firepower	RCP	TBD	1.152	0.000						0.000	1.152	1.492
M1A1 Firepower	MIPR	APG, MD	0.169	0.000						0.000	0.169	0.169
M1A1Firepower	MIPR	YUMA, AZ	0.128	0.000						0.000	0.128	0.128
Subtotal T&E			8.606	1.485		0.400		0.250		Cont	Cont	
Remarks: Assault Breacher Vehicle (ABV) Expeditionary Assault Bridge (EAB)												
Total Cost			32.413	2.649		3.376		2.028		Cont	Cont	

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Exhibit R-4/4a Schedule Profile Detail			DATE:	February 2006
APPROPRIATION/BUDGET ACT/PROGRAM ELEMENT		PROJECT NUMBER AND NAME		
RDT&E, N /BA 7 Operational Sys		C2316 Combat Services Support Engineering Equip		

ASSAULT BREACHER VEHICLE

Fiscal Year Quarter	FY02				FY03				FY04				FY05				FY06				FY07				FY08			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Concept Demonstration DT I																												
Milestone B																												
Build 3 PRPs																												
LUE / DT II																												
MS-C																												
FUT&E																												
OA																												
Refurb ABV 2,3,4																												
ABV-5																												
DT - ATC/EMI/RS JPO																												
IOT&E																												
FRP																												
Fielding Decision																												
IOC																												
FOC																												

Program Funding Summary	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(APPN, BLI #, NOMEN)									
(U) RDT&E, N ABV (C2316)	2.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.170
(U) PMC, BLI# 613300 ABV	8.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.845
(U) PMC, BLI# 652000 EOD Sys ABV	0.000	59.422	6.888	0.000	0.000	0.000	0.000	0.000	66.310

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Exhibit R-4/4a Schedule Profile Detail					DATE: February 2006				
APPROPRIATION/BUDGET ACT/PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N /BA 7 Operational Sys0206624M Marine Corps Combat Services Spt				C2316 Combat Services Support Engineering Equip					
	ABV SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	System Development	1st Qtr							
	System Testing/DT		1st Qtr						
	Milestone B		4th Qtr						
	Build 3 PRP		4th Qtr						
	DT/Field User Evaluation			3rd Qtr					
	MS C				3d Qtr				
	IOT&E					4th Qtr			
	Full Rate Production Decision						1st Qtr		
	IOC						3d Qtr		
FOC							3d Qtr		

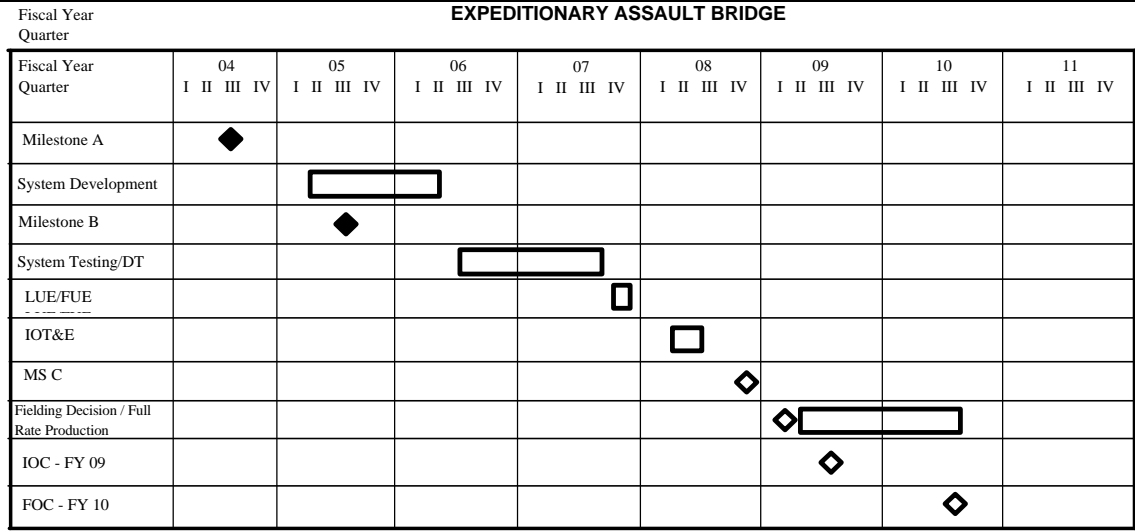
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Exhibit R-4/a Schedule Profile Detail						DATE: February 2006																									
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME																									
RDT&E, N /BA 7 Operational Sys			0206624M Marine Corps Combat Services Spt			C2316 Combat Services Support Engineering Equip																									
M1A1 FIREPOWER ENHANCEMENT PROGRAM (FEP)																															
FY	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009																				
MILESTONES & PHASES	CE MS0	CIDP (PDRR) MSI		FIPP (SDD) MSII/B			P&D,O&S MS III/C		IOC		FOC																				
CONTRACT AWARD OR EVENT		CIDP RFP CIDP AWD	CFI	FIPP AWD CHANGE WORK ORDER		FRP AWD																									
# OF CONTRACTOR		KTR #1 KTR #2																													
DESIGN REVIEWS		SFR CDR		Delta CDR																											
DT/OT			Govt/Cntr DT/OT		OT&E																										
DELIVERIES		PROTOTYPE			EDMs		PRODUCTION DELIVERABLES																								
Program Funding Summary <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th>FY 2008</th> <th>FY 2009</th> <th>FY 2010</th> <th>FY 2011</th> <th>To Compl</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>(U) PMC BLI# 209500 M1A1 FEP</td> <td>35.957</td> <td>31.678</td> <td>19.085</td> <td>25.996</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>112.716</td> </tr> </tbody> </table>													FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost	(U) PMC BLI# 209500 M1A1 FEP	35.957	31.678	19.085	25.996	0.000	0.000	0.000	0.000	112.716
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost																						
(U) PMC BLI# 209500 M1A1 FEP	35.957	31.678	19.085	25.996	0.000	0.000	0.000	0.000	112.716																						

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Exhibit R-4/4a Schedule Profile Detail					DATE: February 2006				
APPROPRIATION/BUDGET ACT PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys0206624M Marine Corps Combat Services Spt			C2316 Combat Services Support Engineering Equip						
	Firepower Enhancement SCHEDULE DET	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	Milestone II/B	3rd Qtr							
	Contract Award		3rd Qtr						
	IOT&E			3rd Qtr					
	Milestone C				1st Qtr				
	FRP Award				1st Qtr				
	Production Deliveries (FY05 - FY09)					1st Qtr			

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Exhibit R-4/4a Schedule Profile Detail		DATE: February 2006
APPROPRIATION/BUDGET ACT/PROGRAM ELEMENT RDT&E, N /BA 7 Operational Sys	PROJECT NUMBER AND NAME 0206624M Marine Corps Combat Services Spt C2316 Combat Services Support Engineering Equip	



Program Funding Summary	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(APPN, BLI #, NOMEN)									
(U) RDT&E,N EAB	0.000	3.000	1.500	0.000	0.000	0.000	0.000	0.000	4.500
(U) PMC BLI#651800 Amph Supt Eq EAB	0.000	0.000	2.012	4.051	11.996	2.596	2.659	Cont	Cont

EAB SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone A	3rd Qtr							
System Development		2nd Qtr						
Milestone B		3rd Qtr						
System Testing/DT			3rd Qtr					
Limited User Evaluation/Field User Evaluation				4th Qtr				
IOT&E					2nd Qtr			
Milestone C					4th Qtr			
Fielding Decision/Full Rate Production						1st Qtr		
IOC						3rd Qtr		
FOC							2nd Qtr	

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev		0206624M Marine Corps Combat Services Spt		C2929 Testing Measuring Diagnostic Equip (TMDE) & SE				
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
		1.274	4.267	7.284	10.878	1.950	1.508	1.549
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
<p>The Alternative Power Sources for Communications Equipment (APSCE) program is a suite of devices that provides the commander with the capability to use existing power to operate communication equipment, computers and peripheral equipment instead of using batteries or fossil fuel generators.</p> <p>The Marine Corps Family of Automatic Test Systems (ATS) (formerly called TETS), provides automatic test program capability for use by technicians both in Garrison and the forward edge of the battlefield; specifically in the area of interactive electronic tech manuals, condition/predictive based maintenance, embedded sensors and prognostics.</p> <p>The Marine Corps Automatic Test Equipment (MCATE) program provides development of sustainment technology for automatic test equipment used in organizational/intermediate maintenance facilities. The Autonomic Logisitics (AL) program provides weapon system sensor data collection and processing for information conversion to provide situational awareness. FY-06 effort will focus on developing system, operational, and technical architectures for condition based maintenance for Marine Corps Ground Weapon Systems. FY-07 efforts will develop Low Rate Initial Production (LRIP) system health hardware and software for Marine Corps weapon systems.</p>								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM								
<p>During FY-06 the AL program will conduct R&D efforts to explore collection & processing of system health data from weapon systems sensor and digital data buss structures for system health information. Work will include diagnostic and prognostic algorithm development. FY-07 R&D efforts will focus on system health application for legacy weapon systems that are not supported with Digital sensors or data buss structures. Conduct developmental test and evaluation of platform level system health hardware and software.</p>								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.376	0.130	0.137				
RDT&E Articles Qty								
APSCE: Research, evaluation, test and selection of alternative power source products for the APSCE suite of equipment.								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.025	0.000	0.000				
RDT&E Articles Qty								
APSCE: Program Management Support.								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.429	0.504	0.570				
RDT&E Articles Qty								
ATS: Development of new technology testing applications in support of emerging weapon systems.								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.444	0.888	0.522				
RDT&E Articles Qty								
MCATE: Develop new technology for sustainment of current Marine Corps Automatic Test Equipment.								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.000	2.745	6.055				
RDT&E Articles Qty								
ALS: Weapon sensor data collection & processing for information conversion to provide situational awareness.								
(U) Total \$		1.274	4.267	7.284				

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev			PROGRAM ELEMENT NUMBER AND NAME 0206624M Marine Corps Combat Services Spt			PROJECT NUMBER AND NAME C2929 Testing Measuring Diagnostic Equip (TMDE) & SE				
			FY2005	FY2006	FY2007					
(U) FY 2006 President's Budget:			1.066	4.332	7.249					
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions										
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings										
(U) SBIR/STTR Transfer										
(U) Minor Affordability Adjustment										
(U) FY 2007 President's Budget:			1.274	4.267	7.284					
CHANGE SUMMARY EXPLANATION:										
(U) Funding: See above.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
 (U) C. OTHER PROGRAM FUNDING SUMMARY:										
	Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U)PMC Line(BLI# 636600)Power Equip APSCE		3.300	3.092	2.723	0.000	0.000	0.000	0.000	0.000	9.115
(U) PMC Line (BLI# 440200) TETS ***		9.261	9.838	2.267	10.288	15.854	0.000	0.000	Cont	Cont
(U) PMC Line (BLI# 418100) Autonomic Logistics		0.000	0.000	1.000	6.472	3.448	3.362	3.030	Cont	Cont
(U) PMC Line (BLI# 446000) WSSS ***		2.386	1.741	0.006	0.026	0.354	0.514	0.516	Cont	Cont
*** FY06 and beyond, PMC Line (BLI# 418100) Repair & Test Equip										
 (U) Related RDT&E:										
 (U) D. ACQUISITION STRATEGY:										
Competitive through the GSA Schedule. All other work is being done in-house at Marine Corps Logistics Base (MCLB), Albany, Naval Surface Warfare Center (NSWC), and Seal Beach, CA., Naval Surface Warfare Center (NSWC) Carderock, ATC, Aberdeen, Silver Eagle, Portland OR										
AL Competitive through Marine Corps Systems Command Contracts. All other work is being done in house and at Gov Engineering facilities.										
 (U) E. MAJOR PERFORMERS: Automatic Test Equipment Program (ATEP), Albany, GA and Naval Surface Warfare Centers Corona and Seal Beach, CA. All other performers to be determined at this time.										

Exhibit R-3 Cost Analysis							DATE: February 2006					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206624M Marine Corps Combat Svs Spt			C2929 Testing Measuring Diagnostic Equip (TMDE) & SE						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Study	RCP	MKI, Va	0.240			0.375	12/05	0.255	02/07	0.000	0.870	0.87
Study	RCP	TBD	0.318			1.515	02/06	0.535	02/07	0.000	2.368	2.398
Study & Hardware	RCP	NSWC; Corona, CA	0.500	0.611	03/05					0.000	1.111	1.187
Hardware	RCP	Willitis Electronic Assembly	0.019			0.092	12/05			0.000	0.111	0.111
Hardware	RCP	MCSC, Quantico VA	0.088	0.021	07/05	0.320	12/05	4.250	12/07	0.000	4.679	4.860
Software Support	WR	ATEP, Ga	0.525	0.252	12/04	0.500	12/05	0.354	12/07	0.000	1.631	1.631
Hardware & Study	WR	NSWC, Ca	0.293					0.775	12/07	Cont	Cont	
Subtotal Product Dev			1.983	0.884		2.802		6.169		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Travel	DTS	MCSC, Quantico VA	0.129	0.010		0.111		0.111		Cont	Cont	
Travel	DTS	MCSC, Quantico VA		0.025		0.015		0.035		Cont	Cont	
Subtotal Support			0.129	0.035		0.126		0.146		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
EVAL TESTING	WR	Albany, GA	0.213			0.163	02/06			0.000	0.376	0.376
EVAL TESTING	WR	NSWC,Crane, IN		0.040	11/04					0.000	0.040	
EVAL TESTING	WR	NSWC, Carderock,MD		0.051	02/05	0.050	02/06	0.050	02/07	0.000	0.151	
EVAL TESTING	WR	ATC, MD		0.264	07/05					0.000	0.264	
										0.000	0.000	
Subtotal T&E			0.213	0.355		0.213		0.050		0.000	0.831	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Program Support	FFP	MCSC, Quantico	0.400			1.126	12/05	0.919	12/06		2.445	2.445
Subtotal Management			0.400	0.000		1.126		0.919		Cont	Cont	
Remarks:												
Total Cost			2.725	1.274		4.267		7.284		Cont	Cont	

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C9999 FY06 Congressional Adds					
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
		0.0	6.000	0.0	0.0	0.0	0.0
RDT&E Articles Qty							

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Autonomic Logisitics (AL) program provides weapon system sensor data collection and processing for information conversion to provide situational awareness. FY-06 effort will focus on developing system, operational, and technical architectures for condition based maintenance for Marine Corps Ground Weapon Systems. FY-07 efforts will develop Low Rate Initial Production (LRIP) system health hardware and software for Marine Corps weapon systems. Congressional Add will support the development of portable maintenance aids in support of AL.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM

During FY-06 the AL program will conduct R&D efforts to explore collection & processing of system health data from weapon systems sensor and digital data buss structures for system health information. Work will include diagnostic and prognostic algorithm development. FY-07 R&D efforts will focus on system health application for legacy weapon systems that are not supported with Digital sensors or data buss structures. Conduct developmental test and evaluation of platform level system health hardware and software.

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.500	0.000
RDT&E Articles Qty			

Autonomic Logistics 9872N: Develop new technology for sustainment of current Marine Corps Automatic Test Equipment.

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	3.500	0.000
RDT&E Articles Qty			

Battlefield Management Sys (BMS) 9645C:

(U) Total \$	0.000	6.000	0.000
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